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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS	19	MAY 23	GBFULL enhanced with patent drawing images
NEWS	20	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	21	MAY 26	STN User Update to be held June 6 and June 7 at the SLA 2005 Annual Conference
NEWS	22	JUN 06	STN Patent Forums to be held in June 2005
NEWS	23	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:52:27 ON 10 JUN 2005

=> file medline, wpids, fsta, biosis, biotechds, scisearch, dgene, embase, uspatful
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	ENTRY	SESSION
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FILE 'USPATFULL' ENTERED AT 06:53:42 ON 10 JUN 2005

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=> s GFP and mutation

L1 9800 GFP AND MUTATION

=> s l1 and chromophore

L2 637 L1 AND CHROMOPHORE

=> s l2 and (E223G)

L3 0 L2 AND (E223G)

=> s l2 and (f65L)

L4 6 L2 AND (F65L)

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 6 USPATFULL on STN

TI Modified fluorescent proteins

AB Functional red fluorescent proteins, nucleic acids encoding them, and methods for their use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:221338 USPATFULL

TITLE: Modified fluorescent proteins

INVENTOR(S): Nelson, David, San Diego, CA, UNITED STATES
Zamaira, Elize, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004171107	A1	20040902
APPLICATION INFO.:	US 2003-311030	A1	20031023 (10)
	WO 2001-US4625		20010213

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-60184732	20000223
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON P.C., 3300 DAIN RAUSCHER PLAZA, 60 SOUTH SIXTH STREET, MINNEAPOLIS, MN, 55402	
NUMBER OF CLAIMS:	84	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	2979	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 6 USPATFULL on STN
TI Novel fluorescent proteins
AB A GFP with an F64L **mutation** and an E222G
mutation is provided. This GFP has a bigger Stokes
shift compared to other GFPs making it very suitable for high throughput
screening due to a better resolution. This GFP also has an
excitation maximum between the yellow GFP and the cyan
GFP allowing for cleaner band separation when used together with
those GFPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:95539 USPATFULL
TITLE: Novel fluorescent proteins
INVENTOR(S): Bjorn, Sara P., Soborg, DENMARK
Pagliaro, Len, Soborg, DENMARK
Thastrup, Ole, Soborg, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004072995	A1	20040415
APPLICATION INFO.:	US 2003-296953	A1	20030902 (10)
	WO 2001-EP6848		20010618

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-953	20000619
	DK 2001-739	20010510
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	1217	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 6 USPATFULL on STN
TI Live cell procedures to identify to identify compounds modulating
intracellular distribution of phosphodiesterase(pde) enzymes
AB An alternative therapeutic approach for PDE4 inhibition is disclosed.

PDE4 dislocators, will remove the PDE4 away from the native location in the cell and thereby increase the concentration of cAMP in this location. By dislocating the PDE4, and thereby not acting directly on the catalytic, among phosphodiesterase inhibitors, well conserved site, the compound will act e.g. at the binding domain of the PDE4, thereby providing isoform-specific `inhibitors` of PDE4. The dislocation of PDE4s are visualised with fusions to **GFP**. The native location is induced by treatment with Rolipram.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:266039 USPATFULL
 TITLE: Live cell procedures to identify to identify compounds modulating intracellular distribution of phosphodiesterase(pde) enzymes
 INVENTOR(S): Terry, Bernard Robert, Frederiksberg, DENMARK
 Scudder, Kurt Marshall, Virum, DENMARK
 Bjorn, Sara Petersen, Lyngby, DENMARK
 Thastrup, Ole, Birkerod, DENMARK
 Almholt, Dorthe Christensen, Greve, DENMARK
 Praestegaard, Morten, Ballerup, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003187056	A1	20031002
APPLICATION INFO.:	US 2003-257909	A1	20030313 (10)
	WO 2001-DK264		20010411

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-651	20000417
	DK 2000-849	20000529
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747	
NUMBER OF CLAIMS:	33	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	22 Drawing Page(s)	
LINE COUNT:	6071	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 6 USPATFULL on STN
 TI Novel fluorescent proteins
 AB A **GFP** with an F64L **mutation** and an E222G **mutation** is provided. This **GFP** has a bigger Stokes shift compared to other GFPs making it very suitable for high throughput screening due to a better resolution. This **GFP** also has an excitation maximum between the yellow **GFP** and the cyan **GFP** allowing for cleaner band separation when used together with those GFPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:314712 USPATFULL
 TITLE: Novel fluorescent proteins
 INVENTOR(S): Bjorn, Sara Petersen, Lyngby, DENMARK
 Pagliaro, Len, Copenhagen K, DENMARK
 Thastrup, Ole, Birkerod, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002177189	A1	20021128
APPLICATION INFO.:	US 2001-887784	A1	20010619 (9)

	NUMBER	DATE
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PRIORITY INFORMATION:	DK 2000-953	20000619
	DK 2001-739	20010510
	US 2000-212681P	20000620 (60)
	US 2001-290170P	20010510 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	1225	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 5 OF 6 USPATFULL on STN

TI Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

AB The present invention is directed to mutants of the jellyfish Aequorea victoria green fluorescent protein (**GFP**) having at least 5 and preferably greater than 20 times the specific green fluorescence of the wild type protein. In other embodiments, the invention comprises mutant blue fluorescent proteins (**BFPs**) that emit an enhanced blue fluorescence. The invention also encompasses the expression of nucleic acids that encode a mutant **GFP** or **BFP** in a wide variety of engineered host cells, and the isolation of engineered proteins having increased fluorescent activity. The novel mutants of the present invention allow for a significantly more sensitive detection of fluorescence in engineered host cells than is possible with **GFP** or with its known mutants. Thus, the mutant fluorescent proteins provided herein can be used as sensitive reporter molecules to detect the cell and tissue-specific expression and subcellular compartmentalization of **GFP** or **BFP** mutants, or of chimeric proteins comprising **GFP** or **BFP** mutants fused to a regulatory sequence or to a second protein sequence.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:117153 USPATFULL

TITLE: Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

INVENTOR(S): Pavlakis, George N., Rockville, MD, United States
Gaitanaris, George A., Frederick, MD, United States
Stauber, Roland H., Erlangen, Germany, Federal Republic of
Vournakis, John N., Charleston, SC, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Department of Health and Human Services, Rockville, MD, United States (U.S. government)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 6265548	B1	20010724
APPLICATION INFO.:	US 2000-503222		20000211 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-646538, filed on 8 May 1996, now patented, Pat. No. US 6027881		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Slobodyansky, Elizabeth		
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew LLP		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	7		

LINE COUNT: 2115
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 6 USPATFULL on STN

TI Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

AB The present invention is directed to mutants of the jellyfish Aequorea victoria green fluorescent protein (GFP) having at least 5 and preferably greater than 20 times the specific green fluorescence of the wild type protein. In other embodiments, the invention comprises mutant blue fluorescent proteins (BFPs) that emit an enhanced blue fluorescence. The invention also encompasses the expression of nucleic acids that encode a mutant GFP or BFP in a wide variety of engineered host cells, and the isolation of engineered proteins having increased fluorescent activity. The novel mutants of the present invention allow for a significantly more sensitive detection of fluorescence in engineered host cells than is possible with GFP or with its known mutants. Thus, the mutant fluorescent proteins provided herein can be used as sensitive reporter molecules to detect the cell and tissue-specific expression and subcellular compartmentalization of GFP or BFP mutants, or of chimeric proteins comprising GFP or BFP mutants fused to a regulatory sequence or to a second protein sequence.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:21375 USPATFULL

TITLE: Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

INVENTOR(S): Pavlakis, George N., Rockville, MD, United States
Gaitanaris, George A., Gaithersburg, MD, United States
Stauber, Roland H., Frederick, MD, United States
Vournakis, John N., Hanover, NH, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6027881		20000222
APPLICATION INFO.:	US 1996-646538		19960508 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu		
ASSISTANT EXAMINER:	Slobodyansky, Elizabeth		
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
LINE COUNT:	3629		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> e bjorn/ au

E1	1	BJORMER J B/AU
E2	2	BJORMERHEIM REIDAR/AU
E3	1 -->	BJORN/AU
E4	57	BJORN A/AU
E5	63	BJORN A L/AU
E6	1	BJORN ACTON/AU
E7	2	BJORN AGNES/AU
E8	1	BJORN AKE/AU
E9	1	BJORN AKE OLOF/AU
E10	1	BJORN ANDERSEN A/AU

E11 1 BJORN ANDERSEN AAGE/AU
E12 1 BJORN ANDERSEN O/AU

=> e thastrup, o/au

E1 41 THASTRUP OLE/AU
E2 6 THASTRUP OVE/AU
E3 0 --> THASTRUP, O/AU
E4 14 THASTUM M/AU
E5 2 THASTUM MIKAEL/AU
E6 1 THASTUM P/AU
E7 1 THASTUM PETER/AU
E8 1 THASTUM S/AU
E9 2 THAT B T/AU
E10 1 THAT D/AU
E11 1 THAT D A/AU
E12 18 THAT D T/AU

=> s e1

L5 41 "THASTRUP OLE"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:52:27 ON 10 JUN 2005)

FILE 'MEDLINE, WPIDS, FSTA, BIOSIS, BIOTECHDS, SCISEARCH, DGENE, EMBASE, USPATFULL' ENTERED AT 06:53:42 ON 10 JUN 2005

L1 9800 S GFP AND MUTATION
L2 637 S L1 AND CHROMOPHORE
L3 0 S L2 AND (E223G)
L4 6 S L2 AND (F65L)
E BJORN/ AU
E THASTRUP, O/AU
L5 41 S E1

=> s 15 and 11

L6 9 L5 AND L1

=> d l6 ti abs ibib tot

L6 ANSWER 1 OF 9 USPATFULL on STN

TI Novel fluorescent proteins

AB The present invention relates to novel variants of the fluorescent protein **GFP** having improved fluorescence properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:63013 USPATFULL

TITLE: Novel fluorescent proteins

INVENTOR(S): **Thastrup, Ole**, Birkerod, DENMARK
Tullin, Soren, Soborg, DENMARK
Poulsen, Lars Kongsbak, Holte, DENMARK
Bjorn, Sara Petersen, Lyngby, DENMARK

PATENT ASSIGNEE(S): BioImage A/S (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005054050	A1	20050310
APPLICATION INFO.:	US 2004-947178	A1	20040923 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-872364, filed on 1 Jun 2001, GRANTED, Pat. No. US 6818443 Continuation of Ser. No. US 2000-619310, filed on 19 Jul 2000, PENDING Continuation of Ser. No. US 1997-819612, filed on 17 Mar 1997, GRANTED, Pat. No. US 6172188 Continuation of Ser. No. WO 1996-DK51, filed on 31 Jan 1996, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-1065	19950922
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Page(s)	
LINE COUNT:	1169	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L6 ANSWER 2 OF 9 USPATFULL on STN
 TI Novel fluorescent proteins
 AB A **GFP** with an F64L **mutation** and an E222G **mutation** is provided. This **GFP** has a bigger Stokes shift compared to other GFPs making it very suitable for high throughput screening due to a better resolution. This **GFP** also has an excitation maximum between the yellow **GFP** and the cyan **GFP** allowing for cleaner band separation when used together with those GFPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 ACCESSION NUMBER: 2004:95539 USPATFULL
 TITLE: Novel fluorescent proteins
 INVENTOR(S): Bjorn, Sara P., Soborg, DENMARK
 Pagliaro, Len, Soborg, DENMARK
Thastrup, Ole, Soborg, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004072995	A1	20040415
APPLICATION INFO.:	US 2003-296953	A1	20030902 (10)
	WO 2001-EP6848		20010618

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-953	20000619
	DK 2001-739	20010510
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AMERSHAM BIOSCIENCES, PATENT DEPARTMENT, 800 CENTENNIAL AVENUE, PISCATAWAY, NJ, 08855	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	1217	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L6 ANSWER 3 OF 9 USPATFULL on STN
 TI Method for extracting quantitative information relating to interactions between cellular components
 AB A method is described to assay for protein interactions in living cells, e.g. by the introduction of two heterologous conjugates into the cell. The method uses the measurement of cellular distribution of a detectable component (e.g. a **GFP**-labelled fluorescent probe) to indicate the presence or absence of an interaction between that component and a second component of interest. The method uses the knowledge that certain components can be stimulated to redistribute within the cell to defined locations. Inducible redistribution systems make it possible to determine if specific interactions occur between components. Inducible

systems are described where it is demonstrated that the redistribution stimuli are essentially "null", in that they affect no other system in the cell during the assay period, other than the component whose redistribution can be induced. Also described is an extraction buffer which is useful in high throughput screening for drugs which affect the intracellular distribution of intracellular components. The extraction buffer comprises a cellular fixation agent and cellular permeabilisation agent. Optimising the composition of the extraction buffer and its application to various cell types is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:24665 USPATFULL
 TITLE: Method for extracting quantitative information relating to interactions between cellular components
 INVENTOR(S): Bjorn, Sara Petersen, Lyngby, DENMARK
Thastrup, Ole, Birkerod, DENMARK
 Terry, Bernard Robert, Frederiksberg, DENMARK
 Hagel, Grith, Dragor, DENMARK
 Nielsen, Soren Jensby, Lyngby, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004018504	A1	20040129
APPLICATION INFO.:	US 2003-332065	A1	20030314 (10)
	WO 2001-DK466		20010703
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Page(s)		
LINE COUNT:	2874		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 9 USPATFULL on STN

TI Live cell procedures to identify to identify compounds modulating intracellular distribution of phosphodiesterase(pde) enzymes
 AB An alternative therapeutic approach for PDE4 inhibition is disclosed. PDE4 dislocators, will remove the PDE4 away from the native location in the cell and thereby increase the concentration of cAMP in this location. By dislocating the PDE4, and thereby not acting directly on the catalytic, among phosphodiesterase inhibitors, well conserved site, the compound will act e.g. at the binding domain of the PDE4, thereby providing isoform-specific `inhibitors` of PDE4. The dislocation of PDE4s are visualised with fusions to **GFP**. The native location is induced by treatment with Rolipram.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:266039 USPATFULL
 TITLE: Live cell procedures to identify to identify compounds modulating intracellular distribution of phosphodiesterase(pde) enzymes
 INVENTOR(S): Terry, Bernard Robert, Frederiksberg, DENMARK
 Scudder, Kurt Marshall, Virum, DENMARK
 Bjorn, Sara Petersen, Lyngby, DENMARK
Thastrup, Ole, Birkerod, DENMARK
 Almholt, Dorte Christensen, Greve, DENMARK
 Praestegaard, Morten, Ballerup, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003187056	A1	20031002

APPLICATION INFO.: US 2003-257909 A1 20030313 (10)
WO 2001-DK264 20010411

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-651	20000417
	DK 2000-849	20000529
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747	
NUMBER OF CLAIMS:	33	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	22 Drawing Page(s)	
LINE COUNT:	6071	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L6 ANSWER 5 OF 9 USPATFULL on STN

TI Method for extracting quantitative information relating to an influence on a cellular response

AB Cells are genetically modified to express a luminophore, e.g., a modified (F64L, S65T, Y66H) Green Fluorescent Protein (GFP, EGFP) coupled to a component of an intracellular signalling pathway such as a transcription factor, a cGMP- or cAMP-dependent protein kinase, a cyclin-, calmodulin- or phospholipid-dependent or mitogen-activated serine/threonine protein kinase, a tyrosine protein kinase, or a protein phosphatase (e.g. PKA, PKC, Erk, Smad, VASP, actin, p38, Jnk1, PKG, IkappaB, CDK2, Grk5, Zap70, p85, protein-tyrosine phosphatase 1C, Stat5, NFAT, NFkappaB; RhoA, PKB). An influence modulates the intracellular signalling pathway in such a way that the luminophore is being redistributed or translocated with the component in living cells in a manner experimentally determined to be correlated to the degree of the influence. Measurement of redistribution is performed by recording of light intensity, fluorescence lifetime, polarization, wavelength shift, resonance energy transfer, or other properties by an apparatus consisting of e.g. a fluorescence microscope and a CCD camera. Data stored as digital images are processed to numbers representing the degree of redistribution. The method can be used as a screening program for identifying a compound that modulates a component and is capable of treating a disease related to the function of the component.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:120083 USPATFULL

TITLE: Method for extracting quantitative information relating to an influence on a cellular response

INVENTOR(S): **Thastrup, Ole**, Birkerod, DENMARK
Bjorn, Sara Petersen, Lyngby, DENMARK
Tullin, Soren, Soborg, DENMARK
Almholt, Kasper, Copenhagen S, DENMARK
Scudder, Kurt, Virum, DENMARK

PATENT ASSIGNEE(S): BioImage A/S (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003082564	A1	20030501
APPLICATION INFO.:	US 2002-72036	A1	20020205 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-417197, filed on 7 Oct 1999, PENDING Continuation of Ser. No. WO 1997-DK9800145, filed on 17 Apr 1997, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1997-392	19970417

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS
CHURCH, VA, 22040-0747
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Page(s)
LINE COUNT: 2309
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 9 USPATFULL on STN

TI Method for extracting quantitative information relating to an influence
on a cellular response

AB Cells are genetically modified to express a luminophore, e.g., a
modified (F64L, S65T, Y66H) Green Flourescent Protein (GFP,
EGFP) coupled to a component of an intracellular signalling pathway such
as a transcription factor, a cGMP- or cAMP-dependent protein kinase, a
cyclin-, calmodulin- or phospholipid-dependent or mitogen-activated
serine/threonine protein kinase, a tryosine protein kinase, or a protein
phosphatase (e.g. PKA, PKC, Erk, Smad, VASP, actin, p38, Jnkl, PKG,
IkappaB, CDK2, Grk5, Zap70, p85, protein-tyrosine phosphatase 1C, Stat5,
NFAT, NFkappaB, RhoA, PKB). An influence modulates the intracellular
signaling pathway in such a way that the luminophore is being
redistributed or translocated with the component in living cells in a
manner experimentally determined to be correlated to the degree of
influence. Measurement of redistribution is performed by recording of
light intensity, flourescence lifetime, polarization, wavelength shift,
resonance energy transfer, or other properties by an apparatus
consisting of e.g. a flourescence microscope and a CCD camera. Data
stored as digital images are processed to numbers representing the
degree of redistribution. The method can be used as a screening program
for identifying a compound that modulates a component and is capable of
treating a disease related to the function of the component.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:40540 USPATFULL
TITLE: Method for extracting quantitative information relating
to an influence on a cellular response
INVENTOR(S): **Thastrup, Ole**, Birkerod, DENMARK
Bj.o slashed.rn, Sara Petersen, Lyngby, DENMARK
Tullin, Soren, Soborg, DENMARK
Almholt, Kasper, Copenhagen, DENMARK
Scudder, Kurt, Virum, DENMARK
PATENT ASSIGNEE(S): BioImage A/S, Soeborg, DENMARK (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6518021	B1	20030211
APPLICATION INFO.:	US 1999-417197		19991007 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1998-DK145, filed on 7 Apr 1998		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1997-392	19970407
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Cleveland, Janell Taylor	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	88	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 12 Drawing Page(s)	
LINE COUNT:	12267	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 9 USPATFULL on STN

TI Novel fluorescent proteins

AB A **GFP** with an F64L **mutation** and an E222G **mutation** is provided. This **GFP** has a bigger Stokes shift compared to other GFPs making it very suitable for high throughput screening due to a better resolution. This **GFP** also has an excitation maximum between the yellow **GFP** and the cyan **GFP** allowing for cleaner band separation when used together with those GFPs.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:314712 USPATFULL

TITLE: Novel fluorescent proteins

INVENTOR(S): Bjorn, Sara Petersen, Lyngby, DENMARK
Pagliaro, Len, Copenhagen K, DENMARK
Thastrup, Ole, Birkerod, DENMARK

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002177189	A1	20021128
APPLICATION INFO.:	US 2001-887784	A1	20010619 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-953	20000619
	DK 2001-739	20010510
	US 2000-212681P	20000620 (60)
	US 2001-290170P	20010510 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747

NUMBER OF CLAIMS: 19

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Page(s)

LINE COUNT: 1225

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 9 USPATFULL on STN

TI Novel fluorescent proteins

AB The present invention relates to novel variants of the fluorescent protein **GFP** having improved fluorescence properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:199251 USPATFULL

TITLE: Novel fluorescent proteins

INVENTOR(S): **Thastrup, Ole**, Birkerod, DENMARK
Tullin, Soren, Soborg, DENMARK
Poulsen, Lars Kongsbak, Holte, DENMARK
Bjorn, Sara Petersen, Lyngby, DENMARK

PATENT ASSIGNEE(S): BIOIMAGE A/S (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002107362	A1	20020808
	US 6818443	B2	20041116
APPLICATION INFO.:	US 2001-872364	A1	20010601 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-619310, filed on 19 Jul 2000, PENDING Continuation of Ser. No. US 1997-819612, filed on 17 Mar 1997, GRANTED, Pat. No. US 6172188 Continuation of Ser. No. WO 1996-DK51, filed on		

31 Jan 1996, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-1065	19950922
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Page(s)	
LINE COUNT:	1239	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L6 ANSWER 9 OF 9 USPATFULL on STN

TI Fluorescent proteins

AB The present invention relates to novel variants of the fluorescent protein **GFP** having improved fluorescence properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2001:4862 USPATFULL

TITLE: Fluorescent proteins

INVENTOR(S): **Thastrup, Ole**, Birkevej 37, DK-3460 Biker.o slashed.d, Denmark
Tullin, S.o slashed.ren, Solnavej 53, 1. tv.,
DK-2860-S.o slashed.borg, Denmark
Poulsen, Lars Kongsbak, V.ae buttet.ngestien 2A,
DK-2840 Holte, Denmark
Bj.o slashed.rn, Sara Petersen, Klampenborgvej 102,
DK-2800 Lyngby, Denmark

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6172188	B1	20010109
APPLICATION INFO.:	US 1997-819612		19970317 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1996-DK51, filed on 31 Jan 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1995-1065	19950922
DOCUMENT TYPE:	Patent	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Ungar, Susan	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1,7,8	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 12 Drawing Page(s)	
LINE COUNT:	831	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

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☐ 1. Document ID: US 6027881 A

L1: Entry 1 of 1

File: USPT

Feb 22, 2000

US-PAT-NO: 6027881

DOCUMENT-IDENTIFIER: US 6027881 A

TITLE: Mutant Aequorea victoria fluorescent proteins having increased cellular fluorescence

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pavlakakis; George N.	Rockville	MD		
Gaitanaris; George A.	Gaithersburg	MD		
Stauber; Roland H.	Frederick	MD		
Vournakis; John N.	Hanover	NH		

US-CL-CURRENT: 435/6; 435/252.3, 435/320.1, 435/69.1, 435/69.7, 530/350, 536/23.4, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw	Desc	Ima
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L1 and (E222G and F64L)	0

Database:

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EPO Abstracts Database
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DB=USPT; PLUR=YES; OP=OR

<u>L6</u>	L1 and (E222G and F64L)	0	<u>L6</u>
<u>L5</u>	L1 and (E223G)	0	<u>L5</u>
<u>L4</u>	GFP and (F65L and E223G)	0	<u>L4</u>
<u>L3</u>	L2 and (E223G)	0	<u>L3</u>
<u>L2</u>	chromophore and (position 66-68)	5787	<u>L2</u>
<u>L1</u>	6027881.pn.	1	<u>L1</u>

END OF SEARCH HISTORY